

RECEIVED PRO  
JUN 17 2014

GENERAL PERMIT REISSUANCE TRACKING SHEET

Facility Name: Vulcan Construction Materials LP - Puget Sound County: Prince George  
Owner: Vulcan Construction Materials LP Permit #: VAG84 0113  
Permit Writer: OBC/PKR

	<u>Date</u>
Registration Statement Received (UPDATE CEDS)	3/25/14
Additional Information Requested	6/5/14
Additional Information Received	6/5/14
Fee Deposit Received	3/27/14
Registration Statement Considered Complete	6/5/14
Registration Statement to TMDL staff	6/5/14
All Applicable Information entered into CEDS	6/10/14
Application Information Added to General Permit Tracking Spreadsheet	6/16/14

Concurrences

Signature	<u>D. Cutler</u>		<u>P. Adams</u>		
Date	<u>6/16/14</u>		<u>6/30/14</u>		



FILED  
MAR 25 2014

Ms. Olive B. Critzer  
Valley Regional Office  
Department of Environmental Quality  
PO Box 3000  
Harrisonburg, VA 22801

To: \_\_\_\_\_  
FILE: \_\_\_\_\_ March 17, 2014

RE: Reissuance of Nonmetallic Mineral Mining General Permit No. VAG840113  
Vulcan Construction Materials Company – Puddledock Quarry – Prince George County

Dear Ms. Critzer,

Enclosed, please find the General Permit Registration form and appropriate attachments for the above referenced facility.

We propose no changes to the existing permitted facilities and desire only to obtain a reissuance on the General Permit. Please provide DMR forms for the process water outfall 001, and the representative stormwater outfalls 002 and 003, described in the following enclosures. It should be noted that all process water outfalls do not include discharges from vehicle washing activities or oil water separator discharges; therefore, petroleum hydrocarbon sampling should not be included on the DMR form for each process water outfall.

Thank you for your kind assistance in this matter. If you have any questions and/or comments, please contact Brian Parker of Cardno MM&A at (804) 441-8388 or myself at (804) 717-8374.

Sincerely,

*Walter C. Beck III*

Walter Beck  
Environmental Engineer

Enclosures

**MEMORANDUM**

**DEPARTMENT OF ENVIRONMENTAL QUALITY**


**VALLEY REGIONAL OFFICE**

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT: Registration Statement Errata for VPDES Permit No. VAG840113, Vulcan Construction Materials LP – Puddledock Sand and Gravel

TO: GP File

FROM: Olive Critzer 

DATE: June 10, 2014

The following deficiency was noted in the subject general permit registration statement:

The facility name should be prefaced with Vulcan Construction Materials LP  
Our records show the receiving stream for outfalls 001 and 003 is Harrison Branch.

The above deficiency in the registration statement is considered to be insignificant in that it will not affect the reissuance of the general permit.

**VPDES GENERAL PERMIT REGISTRATION STATEMENT  
NONMETALLIC MINERAL MINING**

1. Facility Owner: Vulcan Construction Materials, LP C/O Walter Beck
2. Owner Mailing address: Street or P.O. Box 5601 Iron Bridge Parkway, Suite 201  
City or Town Chester State Virginia Zip Code 23831
3. Owner Telephone #: (804) 717-5770 4. Owner Email: BeckW@VMCMAIL.com
5. Contact Name: Walter Beck 6. Contact Telephone #: (804) 717-8374
7. Contact Email: BeckW@VMCMAIL.com
8. Facility Name: Puddledock Sand & Gravel 9. Facility Lat/Long (deg-min-sec): 37-15-38 / 77-21-19
10. Facility Address: 4120 Puddledock Rd, Prince George, Virginia 23875  
(County, Street Number, City or Town, State, Zip)
11. Description of mining activity (mineral mined): Extraction of sand and gravel products for the construction industry.
12. Primary SIC code: 1442 Secondary SIC codes: \_\_\_\_\_
13. Does this mine currently have a VPDES permit? Yes ☒ No ☐ (If yes, give permit number) VAG840113

14. Discharge Information: PLEASE SEE ATTACHED OUTFALL DESCRIPTIONS

OUTFALL NUMBER	OUTFALL TYPE (see note 1)	SOURCE OF DISCHARGE (see note 2)	RECEIVING STREAM AND WETLANDS	LATITUDE/ LONGITUDE (deg-min-sec)

Notes:

1. Outfall Type - list as (1) process wastewater, (2) storm water, or (3) process water commingled with storm water.
2. Source of Discharge (If the outfall has a combination of these sources, list all that apply): (1) mine pit dewatering, (2) storm water associated with industrial activity, (3) storm water not associated with industrial activity, (4) ground water infiltration, (5) wastewater from vehicle or equipment degreasing activities, (6) vehicle washing, (7) mined material washing, (8) return water from operations where mined material is dredged, (9) noncontact cooling water, (10) miscellaneous plant cleanup wastewater, (11) co-located facility discharges (identify the co-located facility), (12) emergency outfall for process water systems designed as "no discharge" or (13) other discharges not listed here (describe).

15. Is the process water system designed to operate as "no discharge?" Yes ☐ No ☒ (see instructions).
16. Storm Water:
- a. Indicate which exclusively storm water outfalls (if any) will be representative outfalls that require a single Discharge Monitoring Report (DMR). SEE ATTACHED OUTFALL LIST FOR REPRESENTATIVE OUTFALLS
- b. For storm water outfalls which are to be represented by other outfall discharges, attach a description of the activities associated with those outfalls and explain why they are substantially the same as the representative outfall to be sampled.
- c. Does the storm water discharge from a storm water management structure (a series of large settling sedimentation basins). Yes ☒ No ☐
- d. Storm water pollution prevention plans (SWPPPs) do not need to be submitted with this registration. However, see requirements for development, updating and implementation in instructions below.

17. If the facility discharges to the Chickahominy watershed above Walkers Dam, provide monitoring data to demonstrate compliance with 9VAC25-260-310 m (Chickahominy special standards) as per Part I B 14 of the 2014 VPDES Nonmetallic Mineral Mining General Permit (if not already submitted to the Department under a different VPDES permit in a DMR).

18. Description of wastewater treatment or reuse/recycle systems, or both:

Solids settling in the pit and/or sedimentation basins prior to discharge

19. List any chemicals added to water that could be discharged:

Callaway (4310, 4325, 4330, 4345, 4848, 4880, 3455L, 3477, 3458, 6280), Jayfloc 3475, Rockfloc (3742R, 3746R, 3719R), RockDust (100, 3330), Paschal PFR (C453, F444, F485, C258, P255, D252, D253), Sodium Hydroxide, Hydrated Lime, Sulfuric Acid (20% Baume), Hydrochloric Acid

20. Indicate any co-located facilities:

21. Is this facility a hazardous waste treatment, storage, or disposal facility? Yes ☐ No ☒

22. Attach to this registration statement a schematic drawing showing the sources of water used for production, the industrial operations contributing to or using water, and the conceptual design of the methods of treatment and disposal of wastewater and solids. Identify outfall numbers listed in item 14 above.

23. Attach to this registration statement an aerial photo or scale map which clearly shows the property boundaries, plant site, drainage areas associated with each outfall, locations of all mine pit dewatering, existing, significant sources of materials exposed to precipitation, storm water management structures (if any), storm water or process wastewater outfalls listed in item 14 above and the receiving streams.

24. Attach to this registration statement evidence that the operation to be covered by this general permit has a mining permit which has been approved by the Virginia Department of Mines, Minerals and Energy, Division of Mineral Mining (or associated waived program) under the provisions and requirements of Title 45.1 of the Code of Virginia. Mineral mines owned and operated by governmental bodies not subject to the provisions and requirements of Title 45.1 of the Code of Virginia are exempt from this requirement.

Mining Permit No.: 05730AE

25. Does the facility discharge storm water into a Municipal Separate Storm Sewer System (MS4)? Yes ☐ No ☒

If yes, provide name of the MS4 operator \_\_\_\_\_

26. Would you like your permit sent to you electronically? Yes ☐ No ☒

If yes, please list the email address to send it to: Prefer hard copy; If possible, also email to BeckW@VMCMAIL.com

**Certification:**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Signature: \_\_\_\_\_

*Walter C. Beck III*

Date: 3/17/2014

Print Name Walter C. Beck III

Title: Environmental Engineering

**Required attachments:**

1. Evidence of approved mining permit
2. Water use schematic drawing
3. Aerial photo or map

**FOR DEPARTMENT USE ONLY:**

Accepted/Not Accepted by: Brod Ricks

Date: 6/26/14

Basin James Rne

Stream Class III

Section 5B

Special Standards —

TMDL Compliance Yes

## SECTION 5.0 DISCHARGE SAMPLING AND ANALYSIS

The General Permit requires sampling and analysis of point source discharges that fall in the following categories.

Mine dewatering and/or discharges of process wastewater, including commingled stormwater.

Stormwater discharges from other plant areas where the stormwater has contacted areas directly related to manufacturing, processing, or raw materials storage.

### 5.1 Process Water and Stormwater Sampling/Analysis Program

Refer to Table 1 for required sample frequency and analytical parameters. There are three appropriate sampling location at the Puddledock Sand & Gravel site which will be used to sample various process water and stormwater discharges. Each outfall to be sampled is listed below along with a brief description of each outfall's type of discharge.

#### Representative Outfalls to be Sampled:

Outfall No.	Latitude / Longitude	Receiving Stream	Outfall Type	Source of Discharge
231-001	37° 15' 38" / 77° 21' 19"	Tributary of Appomattox River	Commingled Process Water and Stormwater	Mine pit dewatering
231-002	37° 16' 04" / 77° 22' 17"	Appomattox River	Stormwater	Stormwater associated with industrial activity. This sample location is representative of all discharges from vehicle maintenance and yard/material stockpile areas.
231-003	37° 16' 01" / 77° 21' 25"	Tributary of Appomattox River	Stormwater	Stormwater associated with industrial activity. This sample location is representative of roadways and surrounding disturbed land.

*Note: There are a total of three discharge points (2 Stormwater, 1 process water) at the Puddledock Sand & Gravel site.*

*Mine dewatering flows and runoff from yard and process areas which drain to the pit are pumped, if necessary, to the old pit and, from there, are pumped to discharge at outfall 231-001. The old pit dewatering pump discharges to a ditch which feeds into another pond. The flow exits that pond through a pipe under the railroad tracks as shown on the outfall location map. The discharge from that pipe is the most representative sampling point to assess the quality of the discharge as it leaves the property.*

*Outfall 231-002 is the discharge point from yard areas, including the shop area, which does not drain to the pit.*

*Outfall 231-003 is the discharge point for drainage surrounding mine expansion on the northern side of the property. Commingled with this water is non-disturbed stormwater which drains from a mostly wooded area. All of the water is pumped from a collecting sump to outfall 231-003.*



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF MINES, MINERALS AND ENERGY  
DIVISION OF MINERAL MINING  
P.O. BOX 3727  
CHARLOTTESVILLE, VIRGINIA 22903-0727  
(434) 951-6310

## PERMIT/LICENSE TO OPERATE A MINE

Permit/License No. 05730AE

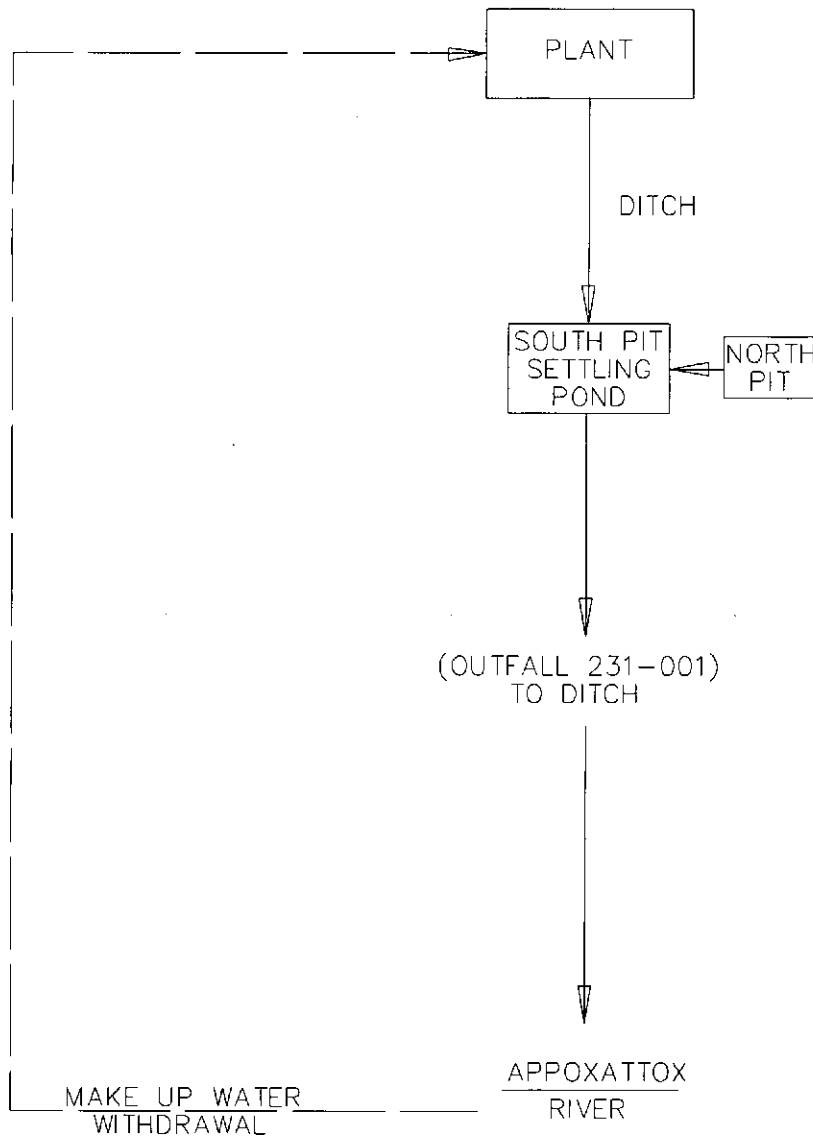
Was issued to VULCAN CONSTRUCTION MATERIALS LP - PUDDLEDOK  
Whose main office is located at (MIDEAST DIVISION)  
CHESTER, VA 23831

For type of mineral(s) SAND & GRAVEL  
Mine Type OPEN PIT Exemption Type N/A  
Located at 3 MILES NE OF PETERSBURG ON RT 645  
County of PRINCE GEORGE

THIS PERMIT IS ISSUED PURSUANT TO CHAPTER 14.1 AND 16, TITLE 45.1, CODE OF VIRGINIA(1950), AS AMENDED Being an Act to require permits/licenses for certain mining operations and to fix conditions for issuance thereof; to provide that certain safety and reclamation practices be performed by mine operators and for inspection thereof; and to advise on satisfactory compliance; to require an annual report on progress of reclamation and tonnage of mineral mined; to provide for the Director to seek injunctive relief; to provide for a Board of Surface Mining Review, a Board of Mineral Mine Examiners, and to provide for appeals from rulings, violations and decisions of the Department or associated Boards.

Issued JANUARY 21 2004  
Covering 908.70 ACRES.  
Receipt number 25292

**THIS PERMIT/LICENSE MUST BE POSTED NEAR THE MINE OFFICE**



PUDDLEDOCK SAND & GRAVEL PLANT  
WATER SOURCE & USAGE  
PRINCE GEORGE COUNTY, VIRGINIA

DRAWING NOT TO SCALE

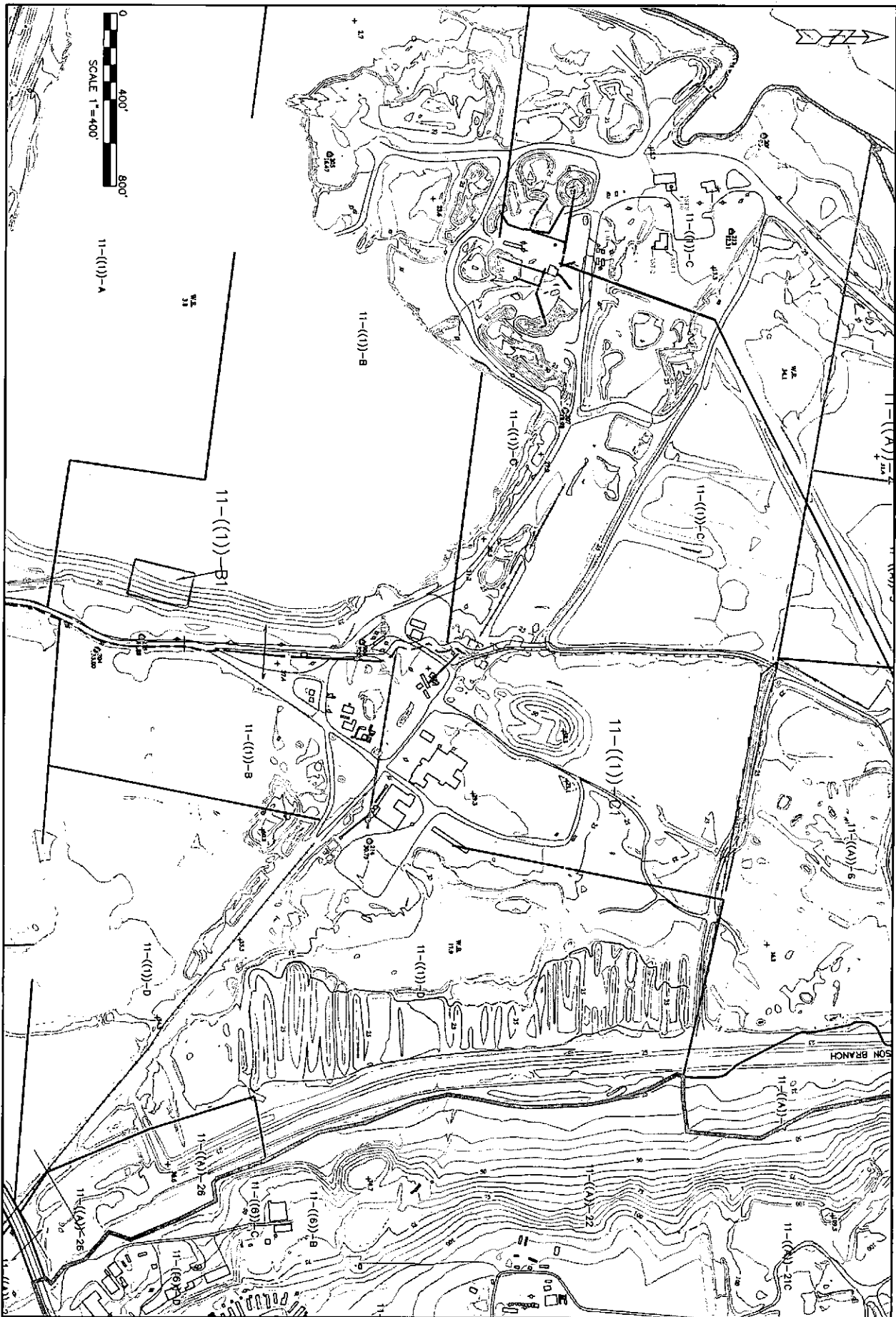
Prepared by:



WATER FLOW SCHEMATIC  
PUDDLEDOCK QUARRY  
PRINCE GEORGE, VA  
JUNE 2008

**Vulcan**  
Materials Company





SHEET  
1 of 1

Prepared by:



BMP/SPPP - OUTFALL LOCATION MAP  
PUDDLEDCK SAND & GRAVEL  
PRINCE GEORGE CO., VA

DATE: 2/21/08  
SCALE: 1"=400'  
DESIGNED: BMP  
DRAWN: BMP  
PROJECT# PR343A

**Vulcan**  
Materials Company

SUBJECT: Reissuance of VPDES Permit No.VAG840113, Vulcan Construction Materials LP-Puddledock Sand and Gravel

TO: Jennifer Palmore

FROM: Olive Critzer *Olive*

DATE: June 10, 2014

Receiving Stream: Outfall 001-Appomattox River, Outfalls 002 and 003 - Harrison Branch

Waterbody ID: VAP-J15R

Latitude/Longitude: 37 15 38N / 77 21 19W

Location: 4120 Puddledock Road, Prince George

Based on the outfall location identified on the attached topographic map and based on the information above, please provide me with the following:

1. Does the facility discharge to an impaired water or to an unnamed, unimpaired tributary of an impaired water for which a TMDL waste load allocation has not been established by the board and approved by EPA? **Y – outfall 002; N – outfalls 001 and 003**

If Yes, give the name of the impaired water: Appomattox River;

Impairment	Pollutant causing the impairment
Aquatic Life Use impairment due to inadequate SAV	Y
Fish Consumption Use due to PCBs in fish tissue	Y
	Y / N

2. Does any approved TMDL impose limits on discharges from this facility? **Y**

If Yes:

TMDL Pollutant	Does the facility discharge the TMDL pollutant?
Chesapeake Bay TMDL – TN, TP, and TSS	Y
Appomattox River Basin Bacterial TMDL – E. coli – not addressed	N
	Y / N

Check if applicable:

- ☐ This facility was not included in the TMDL; however, the addition of this point source is not expected to cause water quality violations because it represents an insignificant load (less than 1%) compared to the TMDL.
- ☐ This facility was included in the Sediment TMDL for

(stream name)

and was given an allocation based on a TSS concentration of \_\_\_\_\_ mg/L.

## Critzer, Olive (DEQ)

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**From:** Walter Beck III [beckw@vmcmail.com]  
**Sent:** Thursday, June 05, 2014 11:29 AM  
**To:** Critzer, Olive (DEQ)  
**Subject:** Re: Puddledock Quarry NMMMGP Renewal VAG840113

Hello Olive. Hope you're doing well.

Please use Puddledock Sand and Gravel.

Thanks

Walter Beck  
Vulcan Construction Materials, LP  
5601 Ironbridge Parkway Suite 201  
Chester, Virginia 23831  
(804) 717-8374  
(804) 314-6118 (Mobile)  
(804) 717-9924 (Fax)

On Jun 5, 2014, at 9:07 AM, "Critzer, Olive (DEQ)" <[Olive.Critzer@deq.virginia.gov](mailto:Olive.Critzer@deq.virginia.gov)> wrote:

My apologies but I missed this before. The cover letters calls this facility Puddledock Quarry, the registration statement says Puddledock Sand & Gravel, our files say Puddledock Sand. How do you want this facility named?

*Olive B. Critzer  
Water Permit Writer  
Dept. of Environmental Quality  
PO Box 3000  
4411 Early Road  
Harrisonburg, VA 22801  
(540)574-7877 (540)574-7878 (fax)  
Website: [www.deq.virginia.gov](http://www.deq.virginia.gov)*

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**From:** Beck III, Walter [<mailto:beckw@vmcmail.com>]  
**Sent:** Monday, March 24, 2014 6:31 PM  
**To:** VRO VPDESPermits (DEQ); Walter Beck III  
**Subject:** Puddledock Quarry NMMMGP Renewal VAG840113

Attention  
Olive Critzer

Here is the NMMMGP VPDES renewal.

Call with any questions. Please email back confirmation of receipt.

Thanks

WB

**Walter Beck**  
**Vulcan Construction Materials, LP**  
**5601 Ironbridge Parkway Suite 201**  
**Chester, Virginia 23831**  
**(804) 717-8374**  
**(804) 314-6118 (Mobile)**  
**(804) 717-9924 (Fax)**